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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 09/632,995 | 08/04/2000 | Sang-Uuk Song | 5000-1-122 | 2594 |
| 33942 | 7590 | 10/21/2005 | EXAMINER | |
| CHA & REITER, LLC 210 ROUTE 4 EAST STE 103 PARAMUS, NJ 07652 | | | NGUYEN, TU X | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2684 | |

DATE MAILED: 10/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | | |
|------------------------------|------------------------|--|---------------------|--|
| Office Action Summary | Application No. | | Applicant(s) | |
| | 09/632,995 | | SONG, SANG-UUK | |
| | Examiner | | Art Unit | |
| | Tu X Nguyen | | 2684 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 3-17 is/are allowed.
- 6) ☒ Claim(s) 1-2 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: |

DETAILED ACTION

Response to Arguments

1. Regarding claim 1, applicant's arguments filed 9/02/05 have been fully considered but are moot in view of previous ground(s) of rejection.

Applicants argue that "It is unclear how McClure applies to Bridges. The Bridges home market area includes "many" base stations. The Bridges portable phone detects, upon initialization, whether it is in its home market area in order to decide whether to: a) stay with its current carrier, or b) search for a preferred wireless carrier. It is unclear to the present applicant how the McClure handoff procedure would have suggested modification of Bridges". However, McClure disclose "unacceptable for conversation" and "keyset to generate zone change signal" (see col.17 lines 5-16) reads on claim limitation and remedies the feature that Bridges lack of "responsive to the determination of deviation, informing, by the portable radio telephone, to a mobile switching center of said determination of deviation".

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2684

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

DETAILED ACTION

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bridges et al. (US Patent 6,148,197) in view of McClure et al. (US Patent 4,028,500).

Regarding claim 1, Bridges et al. discloses 1 home-zone location registering method for a portable radio telephone to provide a first charging rate for a telephone call made inside a predetermined home zone and a second charging rate for a telephone call made outside the home zone (see col.3 lines 30-34), the method comprising the steps of:

receiving, by the portable radio telephone, a home-zone list downloaded from a home location register (see col.7 lines 30-61),

determining, by the portable radio telephone, whether the portable radio telephone deviates from the home zone to make a determination of either deviation or non-deviation from the home zone (see col.12 lines 19-21); and

Art Unit: 2684

Bridges et al. fail to disclose informing by the portable radio telephone, to a mobile switching center of said determination of deviation.

McClure disclose informing by the portable radio telephone, to a mobile switching center of said determination of deviation (see col.17 lines 6-15). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Bridges with the above teaching of McClure in order to provide a user a key press and to notify the central control terminal the "zone change"

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bridges et al. (US Patent 6,148,197) in view of Chow et al. (US Patent 6,456,839).

Regarding claim 2, Bridges fails to disclose the first charging rate corresponds to a wired telephone call rate and the second charging rate corresponds to a radio telephone call rate.

Chow discloses the first charging rate corresponds to a wired telephone call rate (see col.5 lines 15-20) and the second charging rate corresponds to a radiotelephone call rate (see col.6 lines 50-52). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of

Art Unit: 2684

Bridges et al. with the above teaching of Chow in order to varying charging rate when the mobile roaming out of the home zone.

Allowable Subject Matter

7. Claims 3-17 allowed.

8. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 3, the prior art fails to teach "if the location registration request is received, checking whether the current position of the portable radio telephone is included in a home-zone list; upon receiving a call origination from the portable radio telephone, releasing the call origination if the portable radio telephone is deviated from the home zone", as cited in the claim.

Regarding independent claim 7, the prior art fails to teaching "a location registration message generating section coupled to the comparing section for generating a location registration message to attempt a location registration to the mobile switching center when the BTS information is not included in the home-zone list" as cited in the claim.

Regarding independent claim 12, the prior art fails to teaching "a comparing section for checking whether the portable radio telephone deviated from the home zone by comparing the home-zone list to a sector of a currently tuned base transceiver station from the signal received by the receiving section" as cited in the claim.

Regarding independent claim 15, the prior art fails to teaching "a location registration message generating section for confirming that the portable radio telephone

Art Unit: 2684

deviates from the home zone if the pseudo noise code identical to the detected pseudo nose code does not exist in the home-zone list" as cited in the claim.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 8:30AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at 571-272-7883. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

TN

October 11, 2005

EDAN ORGAD
PATENT EXAMINER/TELECOMM.

5.0. 10/16/05